



## THE AMENDMENTS

### In the Claims

1. (previously presented) An electrophoretic display comprising a plurality of cells, each cell:
  - a) being defined by side walls, the side walls having a side surface and a top surface;
  - b) being filled with an electrophoretic fluid comprising charged particles dispersed in a dielectric solvent or solvent mixture, with the top surface of the side walls being at least about  $0.01\mu$  above the top surface of the electrophoretic fluid; and
  - c) being individually sealed with a polymeric sealing layer:
    - i) which is in intimate contact with and forms a contiguous film on the fluid;
    - ii) which is in intimate contact with the side surface of the side walls of the cell above the fluid; and
    - iii) which is in intimate contact with the top surface of the side walls of the cell.
- 2-4. (canceled)
5. (previously presented) The electrophoretic display of Claim 1 wherein said polymeric sealing layer forms a contiguous film on the top of the sealed cells.
6. (previously presented) The electrophoretic display of Claim 1 wherein said sealing layer is formed from a composition comprising a material selected from the group consisting of polyvalent acrylate or methacrylate, cyanoacrylates, polyvalent vinyl, polyvalent epoxide, polyvalent isocyanate, polyvalent allyl, and oligomers or polymers containing crosslinkable functional groups.
7. (original) The electrophoretic display of Claim 6 wherein said composition further comprises an additive selected from the group consisting of surfactants, antioxidants, initiators, catalysts, crosslinkers, thickeners, polymer binders, pigments, dyes and fillers.
8. (Currently Amended) The electrophoretic display of Claim 7 wherein said filler is selected from the group consisting of silica,  $\text{CaCO}_3$ ,  $\text{BaSO}_4$ ,  $\text{TiO}_2$ , metal particles, ~~and their~~ metal oxides, ~~or~~ and carbon black.
9. (canceled)

10. (Currently Amended) The electrophoretic display of Claim 1 wherein the top surface of said cell side walls is about  $0.02\mu$  to about  $15\mu$  above the top surface of the electrophoretic fluid.

11. (Currently Amended) The electrophoretic display of Claim 10 wherein the top surface of said cell side walls is about  $0.1\mu$  to about  $4\mu$  above the top surface of the electrophoretic fluid.

12. (Currently Amended) The electrophoretic display of Claim 1 wherein the top surface of said sealing layer is at least about  $0.01\mu$  above the top surface of said cell side walls.

13. (Currently Amended) The electrophoretic display of Claim 12 wherein the top surface of said sealing layer is about  $0.01\mu$  to about  $50\mu$  above the top surface of said cell side walls.

14. (Currently Amended) The electrophoretic display of Claim 13 wherein the top surface of said sealing layer is about  $0.5\mu$  to about  $8\mu$  above the top surface of said cell side walls.

15. (original) The electrophoretic display of Claim 1 wherein said sealing layer has a thickness in the range of from about  $0.1\mu$  to about  $50\mu$  as measured in the center of said cell.

16. (original) The electrophoretic display of Claim 15 wherein said sealing layer has a thickness in the range of from about  $0.5\mu$  to about  $15\mu$  as measured in the center of said cell.

17. (original) The electrophoretic display of Claim 16 wherein said sealing layer has a thickness in the range of from about  $1\mu$  to about  $8\mu$  as measured in the center of said cell.

18. (Previous Presented) An electrophoretic display which comprises:

- a) two electrode plates;
- b) an array of cells, each cell:
  - i) being defined by side walls, the side walls having a side surface and a top surface;
  - ii) being filled with an electrophoretic fluid comprising charged particles dispersed in a dielectric solvent or solvent mixture, with the top surface of the side walls being at least about  $0.01\mu$  above the top surface of the electrophoretic fluid; and
  - iii) being individually sealed with a polymeric sealing layer:
    - A) which is in intimate contact with and forms a contiguous film on

the fluid;

B) which is in intimate contact with the side surface of the side walls of the cell above the fluid; and

C) which is in intimate contact with the top surface of the side walls of the cell.

19. (original) The electrophoretic display of Claim 18 further comprising an adhesive layer between the top of said polymeric sealing layer and one of said electrode plates.

20. (previously presented) The electrophoretic display of Claim 19 wherein said polymeric sealing layer is formed from a composition comprising a material selected from the group consisting of polyvalent acrylate or methacrylate, cyanoacrylates, polyvalent vinyl, polyvalent epoxide, polyvalent isocyanate, polyvalent allyl, and oligomers or polymers containing crosslinkable functional groups.

21. (original) The electrophoretic display of Claim 20 wherein said composition further comprises one or more additive selected from the group consisting of surfactants, antioxidants, initiators, catalysts, crosslinkers, thickeners, polymer binders, pigments, dyes and fillers.

22. (Currently Amended) The electrophoretic display of Claim 21 wherein said filler is **selected from the group consisting of** silica,  $\text{CaCO}_3$ ,  $\text{BaSO}_4$ ,  $\text{TiO}_2$ , metal particles, ~~and their~~ **metal** oxides, ~~or~~ **and** carbon black.

23. (canceled)

24. (Currently Amended) The electrophoretic display of Claim 18 wherein the top surface of said ~~cell~~ **side** walls is about  $0.02\mu$  to about  $15\mu$  above the top surface of the electrophoretic fluid.

25. (Currently Amended) The electrophoretic display of Claim 24 wherein the top surface of said ~~cell~~ **side** walls is about  $0.1\mu$  to about  $4\mu$  above the top surface of the electrophoretic fluid.

26. (Currently Amended) The electrophoretic display of Claim 18 wherein the top surface of said sealing layer is at least about  $0.01\mu$  above the top surface of said ~~cell~~ **side** walls.

27 (Currently Amended) The electrophoretic display of Claim 26 wherein the top surface of said sealing layer is about  $0.01\mu$  to about  $50\mu$  above the top surface of said ~~cell~~ **side**

walls.

28. (Currently Amended) The electrophoretic display of Claim 27 wherein the top surface of said sealing layer is about  $0.5\mu$  to about  $8\mu$  above the top surface of said ~~cell~~ side walls.

29. (original) The electrophoretic display of Claim 18 wherein said sealing layer has a thickness in the range of from about  $0.1\mu$  to about  $50\mu$  as measured in the center of said cell.

30. (original) The electrophoretic display of Claim 29 wherein said sealing layer has a thickness in the range of from about  $0.5\mu$  to about  $15\mu$  as measured in the center of said cell.

31. (original) The electrophoretic display of Claim 30 wherein said sealing layer has a thickness in the range of from about  $1\mu$  to about  $8\mu$  as measured in the center of said cell.

32. (original) The electrophoretic display of Claim 19 wherein said adhesive layer is a pressure sensitive adhesive, a hot melt adhesive, a heat, moisture, or radiation curable adhesive.

33. (original) The electrophoretic display of Claim 32 wherein said adhesive layer is formed from a material selected from a group consisting of acrylics, styrene-butadiene copolymers, styrene-butadiene-styrene block copolymers, styrene-isoprene-styrene block copolymers, polyvinylbutyal, cellulose acetate butyrate, polyvinylpyrrolidone, polyurethanes, polyamides, ethylene-vinylacetate copolymers, epoxides, multifunctional acrylates, vinyls, vinylethers, and their oligomers, polymers, and copolymers.

34. (original) The electrophoretic display of Claim 19 wherein said sealing layer and said adhesive layer are formed from the same material.

35. (original) The electrophoretic display of Claim 34 wherein said material is a radiation curable material.

36. (original) The electrophoretic display of Claim 19 wherein said sealing layer and said adhesive layer are formed from different materials.

37. (previously presented) The electrophoretic display of Claim 1 wherein said polymeric sealing layer is formed from a sealing composition having a specific gravity lower than that of the electrophoretic fluid.

38. (previously presented) The electrophoretic display of Claim 37 wherein said sealing composition is a UV curable composition.

39. (previously presented) The electrophoretic display of Claim 37 wherein said sealing composition comprises a thermoplastic or thermoset precursor.
40. (previously presented) The electrophoretic display of Claim 18 wherein said polymeric sealing layer is formed from a sealing composition having a specific gravity lower than that of the electrophoretic fluid.
41. (previously presented) The electrophoretic display of Claim 40 wherein said sealing composition is a UV curable composition.
42. (previously presented) The electrophoretic display of Claim 40 wherein said sealing composition comprises a thermoplastic or thermoset precursor.